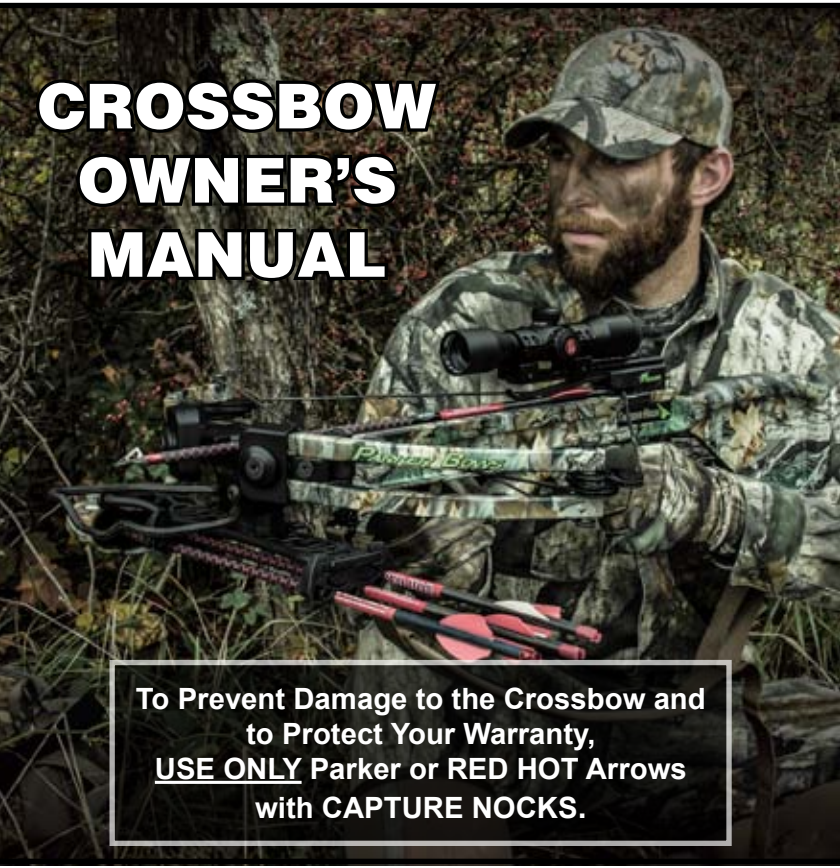
PARKER CROSSBOWS

MADE IN AMERICA

CROSSBOW OWNER'S MANUAL



To Prevent Damage to the Crossbow and to Protect Your Warranty, USE ONLY Parker or RED HOT Arrows with CAPTURE NOCKS.

DO NOT ATTEMPT TO OPERATE OR SHOOT THIS PRODUCT UNTIL YOU HAVE READ THIS ENTIRE MANUAL.

Thank you for your purchase of this Parker Crossbow. Each Parker Crossbow is designed, engineered and manufactured by hunters like you.

Attention to detail and pride in our products drive each of us at Parker to make the best hunting equipment on the market.

Anytime you have a question, a comment or suggestion regarding your Parker Crossbow, please give us a call at (540) 337-5426 or send us an email at customerservice@parkerbows.com.
We value your experience and ideas, and enjoy sharing in your success.

For more information on the current product line of Parker Crossbows and RED HOT Accessories, visit our website at:
www.parkerbows.com

Good luck and safe shooting!

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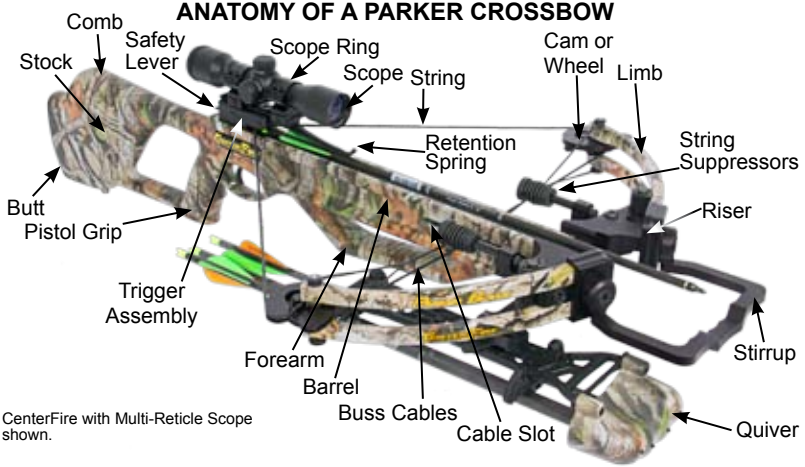
*Challenger & StingRay

ANATOMY

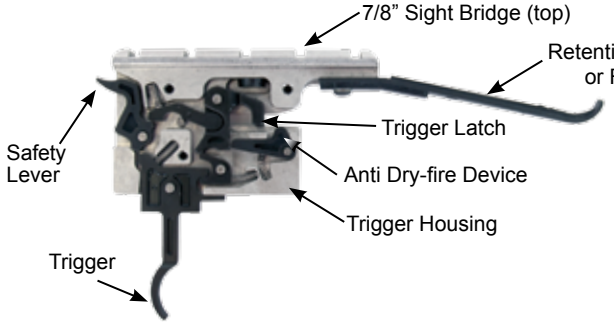
- Congratulations on your purchase of a new Parker Crossbow. This crossbow has been carefully designed and crafted by engineers and hunters that are committed to delivering a quality product that will enhance your experience in the woods.
- As you read this manual there may be terms or descriptions that are unfamiliar to you. Below is a diagram that will help you understand the common terminology and parts of your Crossbow.

ANATOMY OF A PARKER CROSSBOW



CenterFire with Multi-Reticle Scope shown.

ANATOMY OF THE PARKER TRIGGER



GETTING STARTED

DO NOT RETURN THE CROSSBOW TO THE STORE.
CALL PARKER AT 540-337-5426
FOR SERVICE YOU MAY REQUIRE.

Before you begin...

- Empty the contents from the box your new Parker Crossbow was packaged in. The contents should include:
    - Crossbow with the scope installed
    - Quiver
    - Arrows with Field Points
    - Hardware Pack
    - Owner's Manual Packet
- Place all contents in a clear and organized space such as a work bench, tabletop or flat surface where you may inventory and easily identify all the parts and components of this package.
- You will only be required to assemble a few parts with a few screws.
- You will only need a couple of simple tools such as a Phillips screwdriver, and/or a hex wrench set
- When assembling your Parker Crossbow make sure all screws are snug but not over tightened.

Instructional Videos

Visit **www.parkerbows.com/videos** to access Parker's Instructional Videos and learn how to:

- Assemble your crossbow
- Sight in your crossbow
- Unload and shoot your crossbow
- Operate Parker's G2 Trigger
- and much more!

ASSEMBLY

GALE FORCE & TORNADO F4

Take inventory of the items you will need:

A. Front-end
B. Stock with Scope
C. Cable Slide
D. (4) Riser Mounting Screws[1]
E. (2) Riser Mounting Screws[2]
F. (2) Barrel Side Screws
G. Picatinney Rail with 2 screws[1]
H. Quiver & 4 arrows w/ field points
I. Quiver Mount with 2 screws
J. Quiver Mounting Bracket

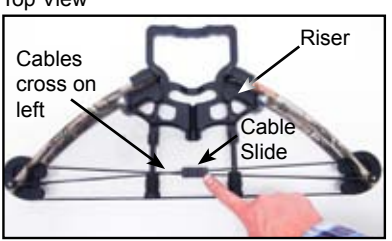
[1]Tornado F4 Only - D & G [2]Gale Force Only - E

Attaching the Front-end

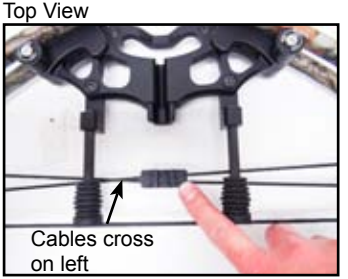
STEP 1

Prior to attaching the Riser of the Front-end to the Barrel, place the Cable Slide on the buss cables (crossed cables) as shown. The Cables will fit into the grooves on the bottom side of the Cable Slide. Make sure the cables cross on the left side (from Top view).

Top View



Top View

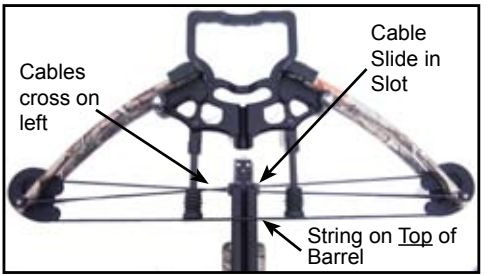


ASSEMBLY

STEP 2

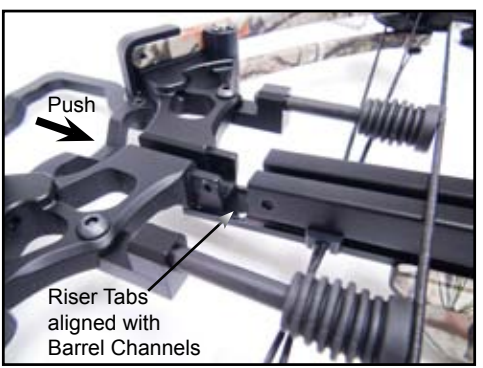
Hold the Cable Slide in place with your thumb and forefinger. Insert the Cable Slide and cables into the Cable Slot in the Barrel, while keeping the string on Top of the Barrel.

Top View



STEP 3

Push the Riser completely down onto the Barrel, making sure to first align the Riser Tabs with the Barrel Channel.



ASSEMBLY

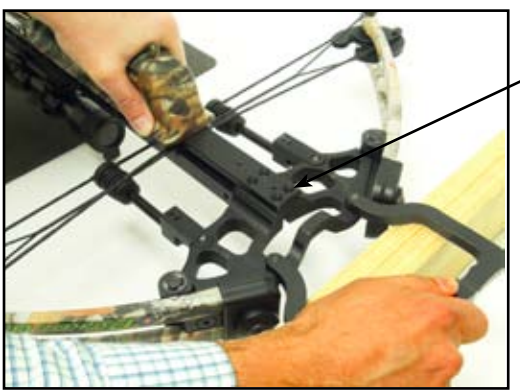
STEP 4

Turn the crossbow upsidedown and lay it on the scope (place pad under the scope for protection) and position the stirrup on a block (2X4) to raise the Front-end as shown.

Tornado F4 Shown

STEP 5

Apply downward pressure with your hand on the forearm of the Stock while grasping the stirrup with your other hand to help you align the screw holes on the bottom of the barrel with the holes in the Riser.



Tornado F4 Shown

ASSEMBLY

STEP 6

While continuing to apply downward pressure, start each of the screws [4 flat head cap screws *for the Tornado F4* and 2 socket head cap screws *for the Gale Force*] but **DO NOT** fully tighten at this time. Be careful not to cross thread the screws.

Gale Force

Tornado F4

STEP 7

Gale Force ONLY: While continuing to apply downward pressure to align the side screw holes, start each of the 2 button head cap screws on either side of the Barrel and tighten with a hex wrench.

Tornado F4 ONLY: While squeezing the end of the Barrel to align the side screw holes (as shown by hand or clamp), start each of the 2 button head cap screws on either side of the Barrel and tighten with a hex wrench.

Do NOT Cross thread Do NOT Overtighten

Gale Force

Tornado F4

ASSEMBLY

STEP 8

Tighten the remaining 4 flat head cap screws *for the Tornado F4* and 2 socket head cap screws *for the Gale Force.* Do not overtighten.

Gale Force

Tornado F4

STEP 8 - TORNADO F4 ONLY

Position the Picatinney Rail on the bottom of the Barrel and align the 2 screw holes with the 2 holes on the Barrel. Start each of the 2 socket head cap screws and then tighten with a hex wrench. Be careful not to cross thread the screws and do not overtighten.

⚠ **IMPORTANT:** If you followed these instructions, you have successfully attached the Front-end to the Stock, and you may now proceed to installing the Quiver.

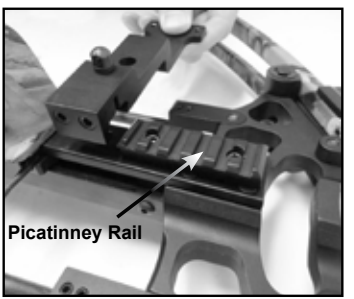
Call 540-337-5426 for Parker Customer Service should you require any assistance.

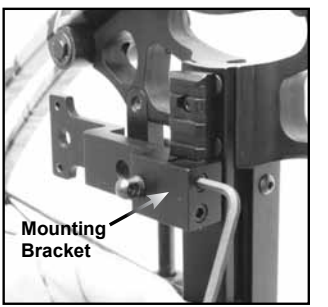
ASSEMBLY

Installing the Quiver

STEP 1

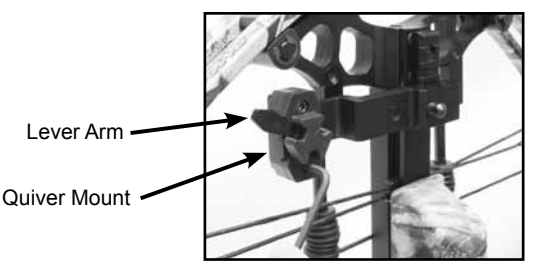
- Slide the Quiver Mounting Bracket onto the bottom of the Barrel over the Picatinney Rail. For Right-hand shooters, position the Bracket on the right side; for Left-hand shooters, on the left side.
- Position the Bracket roughly in the middle of the Picatinney Rail.
- Tighten the pre-installed hex head screws to lock the Quiver Mounting Bracket into position.





STEP 2

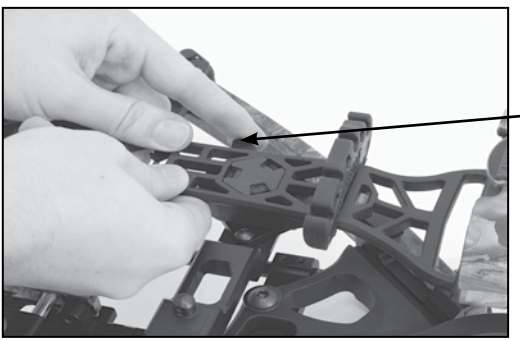
- Install the Quiver Mount to the Quiver Mounting Bracket with the Quiver Mount Screws.
- Note the Lever Arm on the Quiver Mount should face away from the Riser when mounted on the right side and towards the riser when mounted on the left.



ASSEMBLY

STEP 3

Attach the Quiver to the Quiver Mount, and lock in place using the Lever Arm.



ASSEMBLY

BUSHWACKER, CHALLENGER, ENFORCER, THUNDERHAWK, BLACKHAWK & CENTERFIRE

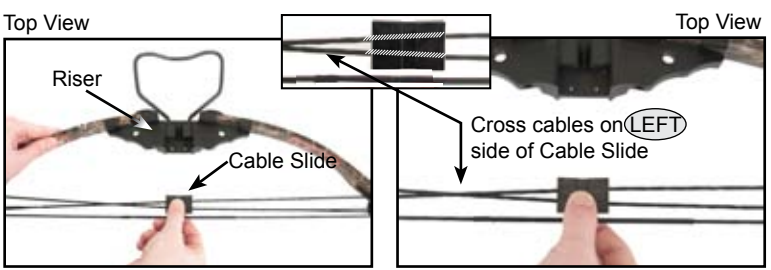
Take inventory of the items you will need:

A. Front-end
B. Stock with Scope
C. Cable Slide
D. (1) Mounting Bolt
E. (2) Top Screws
F. Quiver & 4 arrows w/ field points
G. Quiver Mount
H. (2) Quiver Mount Screws
I. Sidearm Quiver Mount *(CenterFire Only)*
J. Button Head Screws *(CenterFire Only)*

Attaching the Front-end

STEP 1

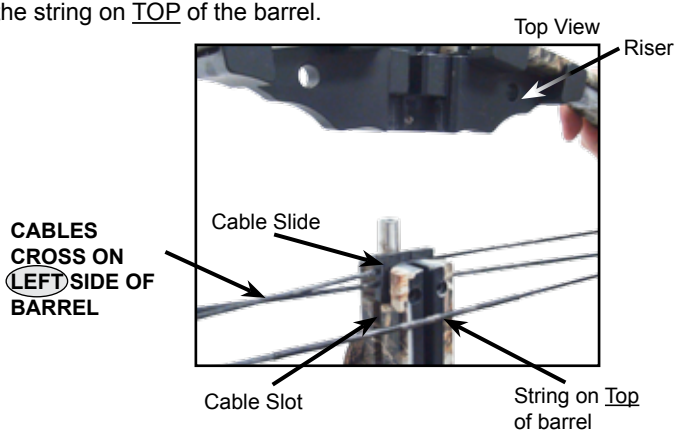
Prior to attaching the Riser to the Stock, place the Cable Slide on the buss cables (crossed cables) as shown. The cables will fit into the grooves on the bottom side of the Cable Slide. Make sure the cables cross on the LEFT side (from top view).



ASSEMBLY

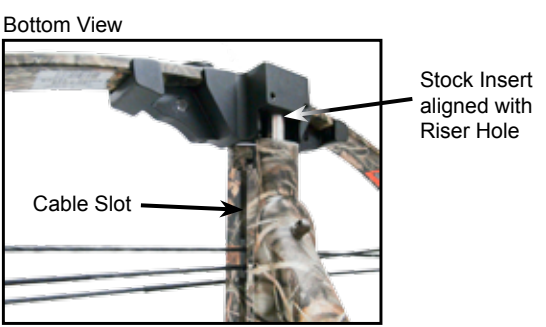
STEP 2

Hold the Cable Slide in place with your thumb and forefinger. Insert the Cable Slide and cables into the Cable Slot in the stock, while keeping the string on TOP of the barrel.



STEP 3

Push the Riser down onto the Stock Insert, making sure to first align the Riser Hole with the Stock Insert.



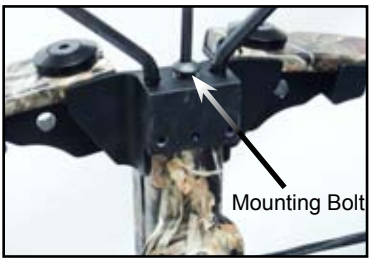
NOTE: The Riser and Stock coming together may be a rather snug to fit, this is common.

ASSEMBLY

STEP 4

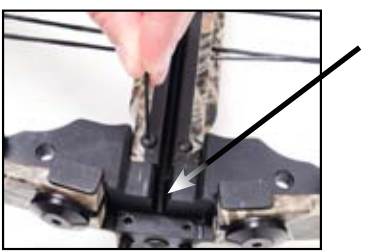
Apply a drop of Blue Loctite® to the threads of the Mounting Bolt. Using a hex wrench install and tighten the Mounting Bolt through the riser hole and secure the Front-End Assembly to the stock.

Bottom View



STEP 5

Install the button-head screws (2) through the top of the barrel on either side of the flight groove using a hex head wrench. Do NOT over tighten screws. Inspect all attachment points to be sure screws are firmly in place and tightened.



The flight groove is the slot in the barrel where the cock vane of the arrow travels during the shot.

⚠ **IMPORTANT:** If you followed these instructions, you have successfully attached the Front-end to the Stock, and you may now proceed to installing the Quiver.

Call 540-337-5426 for Parker Customer Service should you require any assistance.

Installing the Quiver

STEP 1

Position the Quiver Mount on the bottom side of the Riser aligning the holes in the Quiver Mount with the holes in the Riser.

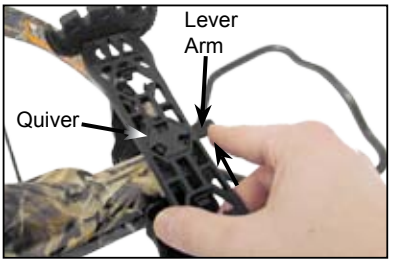
STEP 2

Attach the Bracket to the Riser using the Hex head screws and a Hex wrench. Snug the screws but do NOT over-tighten.

ASSEMBLY

STEP 3

Attach the Quiver to the Quiver Mount, and lock in place using the Lever Arm.



Installing the Sidearm Quiver Mount *(CenterFire Only)*

STEP 1

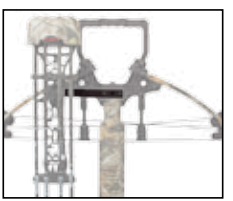
Using the screws provided with the Sidearm Bracket Assembly, attach the assembly to the bottom of the crossbow riser as shown.

STEP 2

Using the screws provided with the Parker Quiver, attached the Quiver Mount to the Sidearm Assembly as shown.

STEP 3

Attach Parker Quiver to the Sidearm Assembly as shown.



NOTE: For left-handed shooters, install the Sidearm Assembly in the opposite direction and rotate the Sidearm Plate so the offset is to the rear.

LIMB ADJUSTMENT

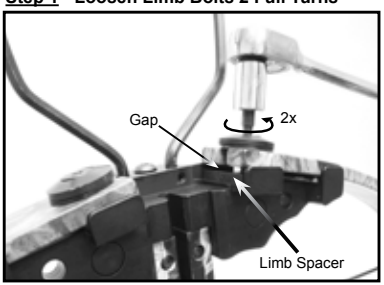
The **CHALLENGER** and **STINGRAY** crossbows are designed to have an adjustable draw weight range. **Do NOT Use a Bowpress to Adjust Weight Range.**

Challlenger Limb Adjustment: 125 lb to 150 lb
StingRay Limb Adjustment: 100 lb to 125 lb

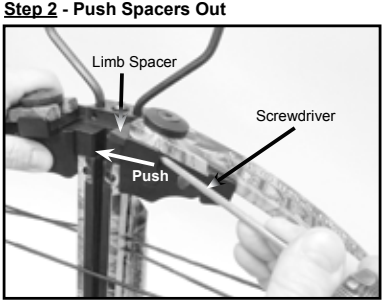
What you will need:

Increasing Draw Weight

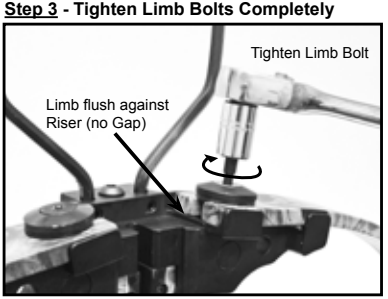
Step 1 - Loosen Limb Bolts 2 Full Turns



Step 2 - Push Spacers Out



Step 3 - Tighten Limb Bolts Completely



Step 4 - Put Spacers in Safe Place for Future Use

⚠ **ATTENTION: Do NOT Use a Bowpress to Adjust Weight Range**

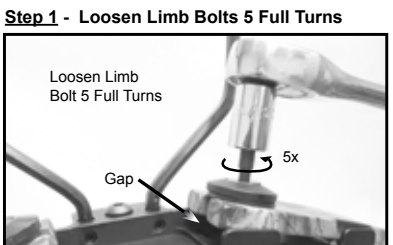
⚠ **ATTENTION:** Do NOT shoot the crossbow unless both Spacers are IN or both Spacers are OUT.

⚠ **WARNING:** DO NOT shoot the crossbow without the limb bolts tightened all the way down.

LIMB ADJUSTMENT

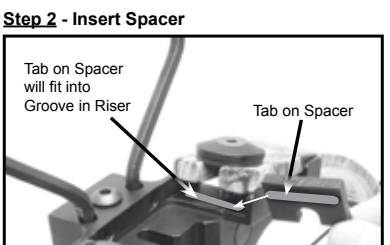
Decreasing Draw Weight

Step 1 - Loosen Limb Bolts 5 Full Turns



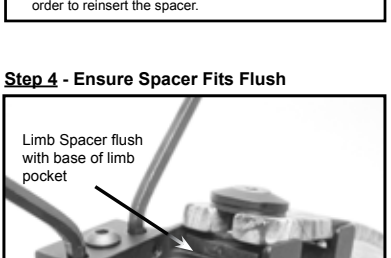
⚠ **ATTENTION:** Do NOT loosen the limb bolts on each side more than 5 full turns (which is 10 half turns) in order to reinsert the spacer.

Step 2 - Insert Spacer

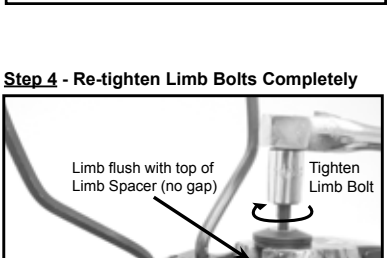


⚠ **ATTENTION:** Make sure the Tab on the Spacer fits into the Groove in the Riser.

Step 4 - Ensure Spacer Fits Flush



Step 4 - Re-tighten Limb Bolts Completely



⚠ **WARNING:** DO NOT shoot the crossbow without the limb bolts tightened all the way down.

⚠ **ATTENTION: Do NOT Use a Bowpress to Adjust Weight Range**

⚠ **ATTENTION:** Do NOT shoot the crossbow unless both Spacers are IN or both Spacers are OUT.

Should you require any assistance, please call Parker Customer Service at 540-337-5426

COCKING

USING A ROPE COCKING DEVICE

⚠ **WARNING:** Completely familiarize yourself with the cocking device prior to usage. Carefully review the pictures and instructions before you attempt to cock your crossbow with the cocking device.

⚠ **WARNING:** DO NOT attempt to cock your crossbow by hand.

⚠ **WARNING:** DO NOT attempt to un-cock a crossbow with a cocking device under any circumstances.

Ensure Trigger latch is UP. If Trigger Latch is DOWN, see page 43.

STEP 1

Place the crossbow on the ground, resting it on its Stirrup, with the Butt of the stock pointing up facing you. Place one foot securely inside the Stirrup and firmly place your weight on the Stirrup to ensure the crossbow will not move (Fig. A). Use extra caution with smooth bottom shoes, wet shoes, slick surfaces and/or wet ground.

Fig. A

STEP 2

Hold the Rope Cocking Device with one hook in each hand and with the hook opening facing towards you (Fig. B). Leave 6 inches of rope between the hooks and place the rope in the groove on the Stock below the Trigger Assembly.

Fig. B

COCKING

STEP 3

While holding a string hook in each hand, lean over the bow and attach the string hooks to the bow string, one hook on either side of the stock, and snug to the side of the Barrel. Make sure the hooks are facing down (towards your legs). On some models, you may have to pull the string up slightly to attach the rope cocker hooks.

Fig. C

STEP 4

Before cocking, check (Fig. C) to make sure rope cocking device is in the correct position. Grab the handles, now using the larger muscle groups of your legs, back and arms, stand up and raise (pull) the handles up and back towards your hips (Fig. D) until the string audibly "clicks" securely into the Trigger Assembly. The click will be the sound you hear when the Safety "automatically" engages. Your crossbow is now ready to load & shoot.

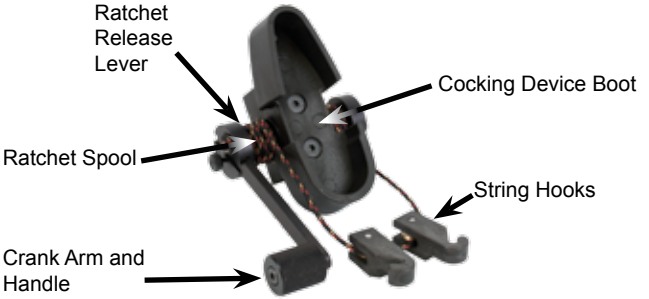
Fig. D

⚠ **ATTENTION:** DO NOT pull the handles up to your chest or shoulders. This technique is more difficult and could result in the hooks pulling off of the Barrel.

⚠ **WARNING:** DO NOT leave your crossbow cocked or loaded when not in use, or unsupervised.

COCKING

USING SIDEWINDER CRANK COCKING DEVICE



STEP 1

Place the crossbow on the ground, resting it on its Stirrup, with the Butt of the stock pointing up facing you. Place one foot securely inside the Stirrup and firmly place your weight on the Stirrup to ensure the crossbow will not move (Fig. A). Use extra caution with smooth bottom shoes, wet shoes, slick surfaces and/or wet ground.

Fig. A

STEP 2

Place the sidewinder crank cocking device on the butt stock as shown (Fig. B). Making sure the cocking device is firmly seated on the butt of the stock.

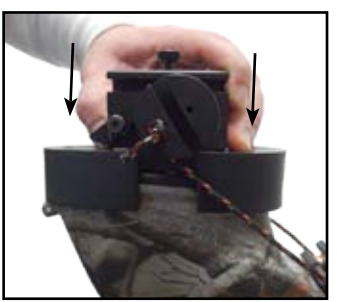


Fig. B

COCKING

STEP 3

Depress the ratchet spool release lever to allow the cord and hooks to free spool, and be unwound (Fig. C).

Fig. C

STEP 4

Pull the string hooks completely out of the sidewinder until all the cord is unwound. Inspect the cord for fraying before and after every use (Fig. D).

Fig. D

STEP 5

Move the trigger safety into the “fire” (up) position. (This is important for step #8) Holding one hook in each hand, make sure the cocking rope is seated into the rope cocker groove in the Stock below the trigger housing (Fig. E).

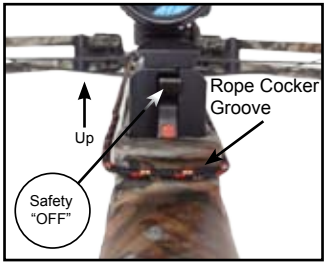


Fig. E

COCKING

STEP 6

While holding a hook in each hand, lean over the crossbow and attach the hooks to the bowstring one on each side of the barrel. Make sure each hook is snug to the side of the barrel. Make sure hooks are facing down and towards your legs.

Fig. F

STEP 7

Slide the crank lever firmly into the slot in the ratchet spool until you hear a “click”. Use one thumb screw to secure the crank lever to the ratchet spool (Fig. G). Tighten thumb screw “FIRMLY”.

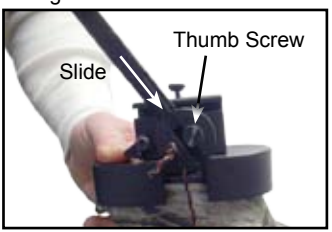


Fig. G

STEP 8

Begin winding slowly and carefully in a clockwise direction until the string is drawn back into the trigger and securely locks in place (Fig. H). The trigger safety should automatically “click” into the safe (down) position at this time, exposing a “Green” dot.

Safety in Down Position

WARNING: Stop winding when the safety lever moves to the “safe” down position to avoid damaging your crossbow or Side-winder cocking aid.

Fig. H

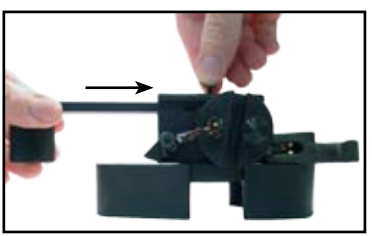
COCKING

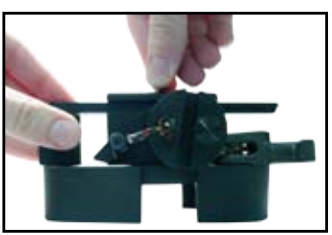
STEP 9

CAUTION: ONLY AFTER THE CROSSBOW IS FULLY COCKED AND THE SAFETY IS ENGAGED, while holding the crank lever securely, depress the ratchet spool release lever and slowly unwind a small amount of cord until you can easily remove the string hooks from the crossbow string.

STEP 10

Remove the sidewinder from the crossbow and set it aside. At the end of your shooting session, carefully wind up the loose cord and store the crank lever in it's own slot on the sidewinder housing. Use the second thumb screw to secure it.





⚠ **WARNING:** DO NOT leave your crossbow cocked or loaded when not in use, or unsupervised.

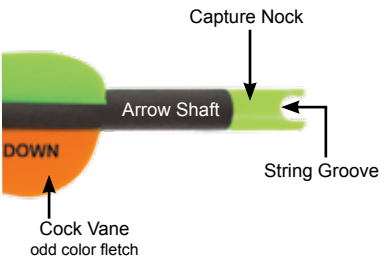
ARROW SAFETY

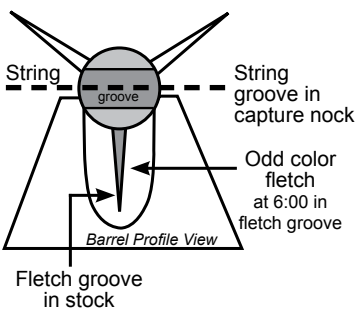
SAFE AND PROPER USE

- The safe shooting of your Parker crossbow requires that the string groove of the arrow nock be aligned properly to avoid dry firing the crossbow.

- **Dry firing may result in serious injury to the shooter and bystanders.** Further, it may cause damage to the crossbow itself. Always check the nock alignment on every crossbow arrow before shooting.

- Proper orientation of the string groove is at 90 degrees to the cock vane (odd color vane) on the arrow. When the arrow is placed on the crossbow with the cock vane down in the flight groove the Capture Nock should be in line with the string. **If the nock groove is in any other position in the arrow it may not engage the String properly, and could result in a dry fire.**





⚠ **WARNING:** After each shot, examine your crossbow arrows for damage to the shaft or nock. DO NOT use damaged arrows.

ARROW SAFETY

PROPER SELECTION

- The proper selection of crossbow arrows and nocks is critical to the safe function of your Parker crossbow and to reduce the risk of damaging your crossbow or possibly injuring you or bystanders.

> ⚠ **ATTENTION:** Parker REQUIRES using ONLY Parker or RED HOT Brand Crossbow Arrows that are 20 inches in length with Capture Nocks installed and having a finished mass weight* of a minimum of 400 grains **(Fig. A)**.
>
> ** A finished mass weight is the total weight of the arrow with a field point or broadhead installed.*

ONLY USE

GO

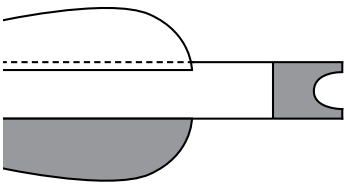


Fig. A

SHOOT PARKER OR RED HOT BRAND ARROWS ONLY

DO NOT USE

STOP

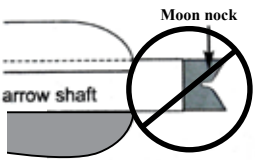


Fig. B

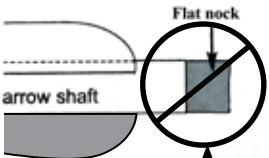


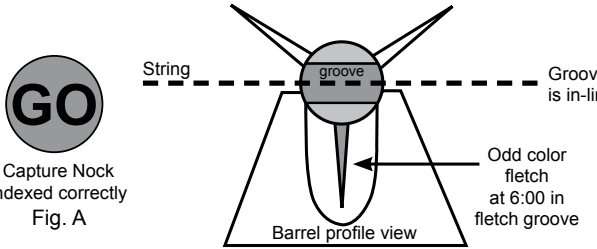
Fig. C

> ⚠ **WARNING:** DO NOT USE Moon Nocks (Fig. B) or Flat or Omni Nocks (Fig. C) with your Parker Crossbow.

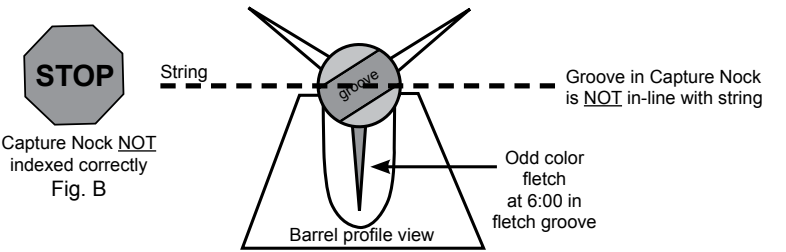
ARROW SAFETY

CORRECT INDEXING

- The safe shooting of your Parker crossbow requires that the nocks be “indexed” correctly. Indexing refers to the ability to turn the nock in the arrow shaft
- **Correct indexing means:** The groove in the Capture Nock is oriented (turned) “in-line” with the direction of the string (Fig. A).



- If the nock is not in-line with the string, it is possible the string will travel over the nock and produce a dry-fire (Fig. B).
- Further, any nock that is not securely pressed into the arrow shaft and can be easily turned in the shaft should be discarded. The nock should be replaced immediately with a new one that is safe and indexes correctly. **Note:** The arrow may also have to be discarded.

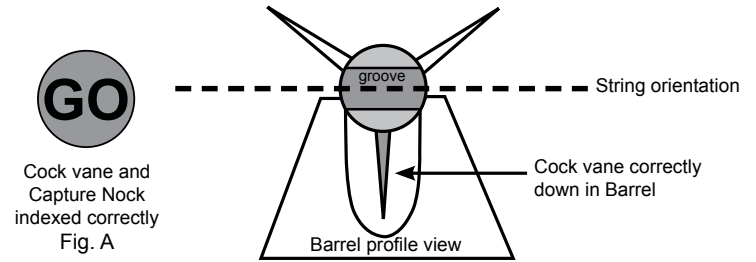


⚠ **WARNING:** BEFORE EACH SHOT, examine your arrow and nock and be certain the nock is indexed correctly.

ARROW SAFETY

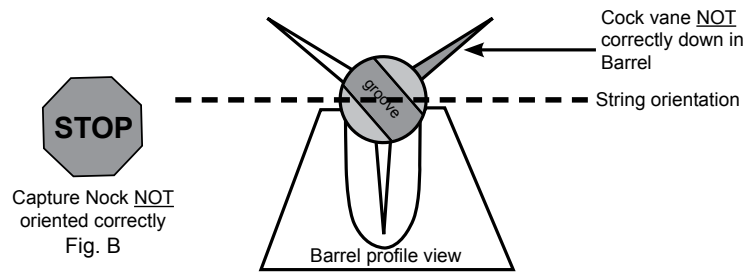
CORRECT LOADING

- The safe shooting of your Parker crossbow requires that the cock vane be “loaded” correctly.
- **Correct loading means**: The cock vane, (or odd color vane) is oriented and placed DOWN and INSIDE the Barrel. Second, the Capture Nock is oriented (turned) 90 degrees to the direction of the cock vane (Fig. A).



Cock vane and Capture Nock indexed correctly
Fig. A

- If the cock vane is any position other than down and inside the Barrel, it introduces the possibility the string will travel over the nock and produce a dry-fire (Fig. B).



Capture Nock NOT oriented correctly
Fig. B

⚠ **WARNING:** BEFORE you shoot, BE CERTAIN the Cock Vane is DOWN and INSIDE the Barrel.

ARROW SAFETY

FULL ENGAGEMENT

- The safe operation of your Parker crossbow requires that the Capture Nock is pushed all the way back into the Trigger Assembly, making **Full Engagement** with the string (Fig. A).

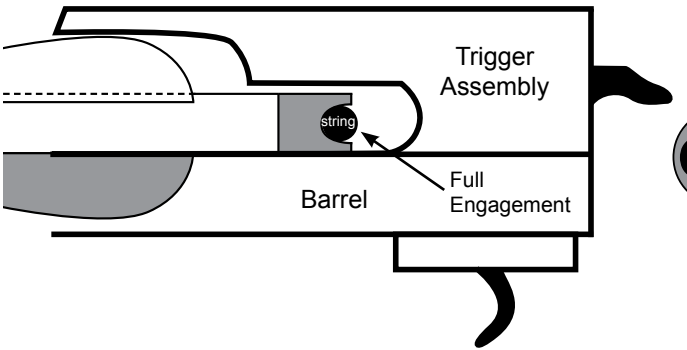


Fig. A

- Leaving a gap between the Capture Nock and string may cause the string to travel over the nock, producing a dry-fire (Fig. B).

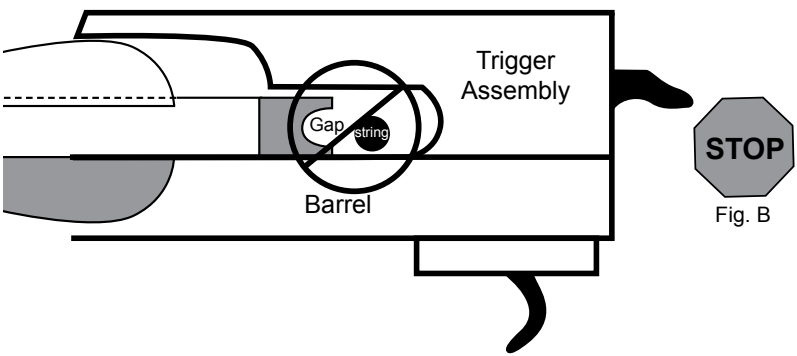


Fig. B

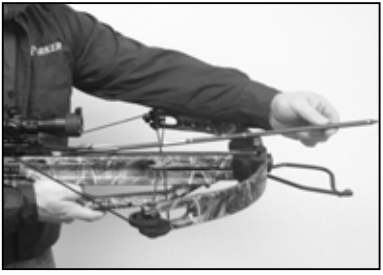
WARNING: BE CERTAIN the Capture Nock fully engages the string and makes contact.

SHOOTING

PROPER LOADING AND SHOOTING

STEP 1

Place an arrow on the Barrel with the odd color vane down and in the flight groove. Slide the arrow back toward the sight bridge, under the Retention spring until the nock fully engages the string. The arrow Retention Spring is factory set and the down pressure holds your arrow in place. **DO NOT** remove or bend the Retention Spring upward.



Slide the arrow under the Retention Spring, cock vane down until the nock is firmly seated against the string.

DANGER: Make sure your hand, thumb and fingers remain OUTSIDE the string path when loading the arrow. Failure to do so may result in SERIOUS injury to the shooters hand, including possible thumb or finger amputation.

ATTENTION: Parker REQUIRES using ONLY Parker or RED HOT Brand Crossbow Arrows with Capture Nocks installed and having a finished mass weight of a minimum of 400 grains. DO NOT USE MOON NOCKS OR FLAT NOCKS. SEE PAGE 23.

STEP 2

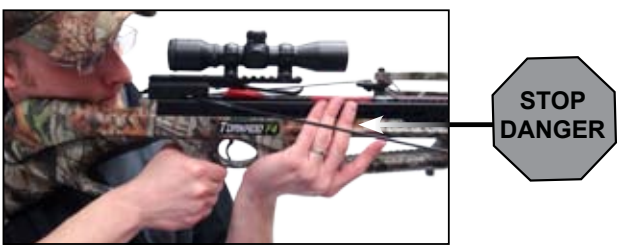
Always keep your crossbow pointed safely down range. Raise the crossbow to your shoulder as you would a rifle or shotgun with your front hand on the thick part of the Forearm.

SHOOTING

⚠ DANGER: SEVERE INJURY/AMPUTATION ⚠
<u>WILL</u> OCCUR

INCORRECT
Thumb above Barrel

INCORRECT
Fingers above Barrel



INCORRECT
Thumb or fingers behind Forearm & above Barrel

SHOOTING

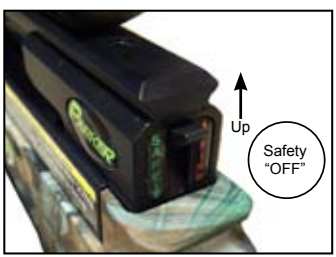
CORRECT **GO**

Hand securely gripping Forearm, with fingers and thumb below the Barrel and string's path.

DANGER: Make sure your hand, thumb and fingers remain BELOW the string and surface of the Barrel. Failure to do so may result in SERIOUS injury to the shooters hand, including possible thumb or finger amputation.

STEP 3

Now that the arrow is properly loaded, slide the Safety off by pushing the Safety Lever "UP" to the "Fire" position (red).



SHOOTING

STEP 4

Aim the crossbow at your target, and slowly “Squeeze” the Trigger (do not jerk) until the crossbow fires.

***HELPFUL TIP**:* For optimum accuracy, follow through your shot by aiming and watching the arrow hit your target through your scope. Following through your shot will greatly reduce the size of your groups. There is virtually no recoil in a crossbow, so relax and hold the crossbow comfortably.

⚠ **WARNING:** Never use an arrow that is damaged.

⚠ **ATTENTION: Carefully inspect <u>each</u> arrow for damage before <u>and</u> after <u>every</u> shot. <u>THIS IS VERY IMPORTANT FOR YOUR SAFETY</u>.** Inspect for damage including (a) hairline fractures, cracks or splitting of the carbon shaft, (b) cracked, split or loose Capture nock, (c) ripped or torn fletching, (d) bent or loose insert, (e) missing, loose, bent or broken field point or broadhead. If the arrow is damaged, do NOT use it.

⚠ **WARNING:** Do NOT put your finger on the trigger until you have made the decision to fire. To do so could result in an accidental discharge that could cause serious injury or death, or damage to property.

UN-COCKING

USING THE DISCHARGE METHOD

- The ONLY safe and proper method to un-cock your crossbow is using the Discharge Method.
- Ensure that the Safety is “On” (down or green position) and follow these simple steps:

1. Remove your hunting arrow from the crossbow.
2. Replace your hunting arrow with a practice or “discharge” arrow tipped with a field point.

3a. Safely point your crossbow at the ground roughly six feet from you at an approximate angle of 45 degrees, not higher. Higher than 45 degrees may introduce an opportunity for the arrow to skip or glance off the ground. Be sure the ground is free of rocks or a hard surface where the arrow will strike (Fig. A).

or

3b. Using a foam or bag target designed for field points, safely point your crossbow at the target with a clear and safe background behind the target (Fig. B).

4. Move the Safety to the fire position (up or red) and pull the Trigger.
5. Recover your arrow.

⚠ **ATTENTION:** The “discharge” arrow MUST maintain the minimum standards of 20 inches, 400 grains with Capture Nocks. See page 23.

⚠ **WARNING:** Do not attempt to un-cock your crossbow using any other means or methods. To do so could result in serious injury and/or damage the crossbow.

UN-COCKING

GO

Shoot info soft ground clear of debris, rocks, or branches.

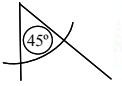
Fig. A

6 feet

GO

Shoot into a target designed for crossbow arrows.

Fig. B



6 feet

ASSEMBLY

Take inventory of the items you will need:

A. Front-end
B. Stock with Scope
C. Cable Slide
D. (1) Mounting Bolt
E. (2) Top Screws
F. Reel Mount
G. (2) Reel Mount Screws
H. Reel & Bowfishing Arrow

Open Sight Shown

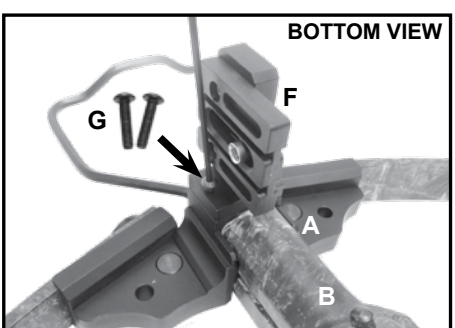
Attaching the Front-end

See page 10

Install Reel & Mount

STEP 1

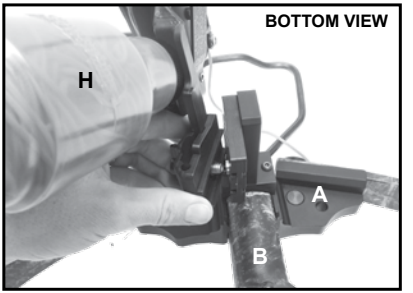
Position the Reel Mount on the bottom side of the Riser aligning the holes in the Reel Mount with the holes in the Riser.

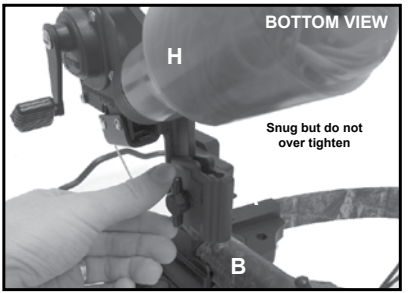


⚠ ATTENTION: DO NOT CROSS THREAD OR OVERTIGHTEN

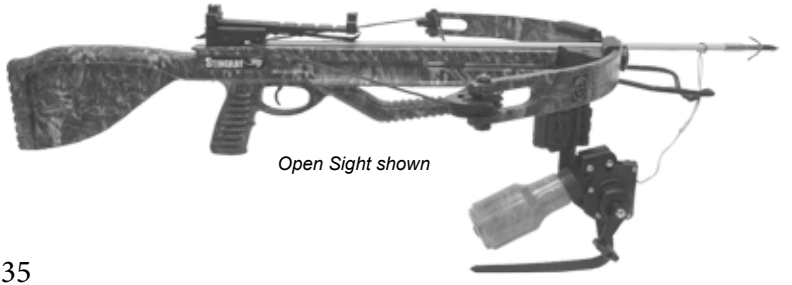
STEP 2

Line the Reel thumb screw up with the Reel Mount (as shown). Hold the Reel with one hand while tightening it with the other as pictured.





Installation is now complete. The StingRay should look like the picture below. If it does not, please review instructions.



Open Sight shown

STINGRAY

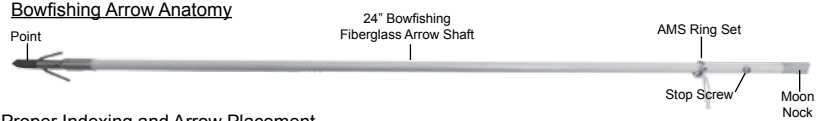
OPERATIONS

Cocking

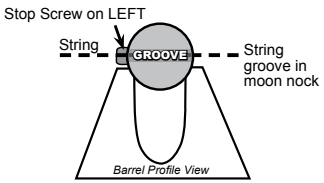
See page 17

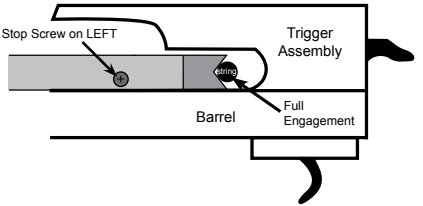
Arrow Safety

Bowfishing Arrow Anatomy



Proper Indexing and Arrow Placement

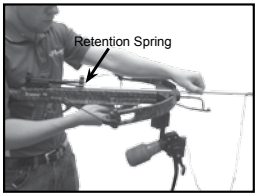


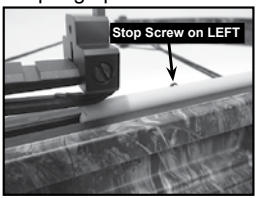


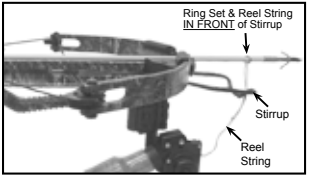
⚠ **ATTENTION:** The Moon Nock MUST be FULLY ENGAGING the Crossbow String before Crossbow can be fired. Failure to do so may cause a partial dry-fire resulting in damage to the crossbow or harm to yourself or others.

Loading

Place an arrow on the Barrel and slide it back toward the sight bridge, under the Retention spring until the nock fully engages the string. The arrow Retention Spring is factory set and the down pressure holds your arrow in place. DO NOT remove or bend the Retention Spring upward.







⚠ **ATTENTION:** The Ring Set & String MUST be IN FRONT of Stirrup when Arrow is loaded and fired. Failure to do so may result in harm to the crossbow, arrow or shooter.

Shooting

INCORRECT
Thumb above Barrel

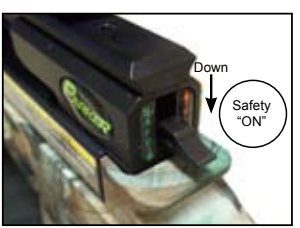
INCORRECT
Fingers above Barrel

CORRECT

Hand securely gripping Forearm, with fingers and thumb below the Barrel and string's path.

Now that the arrow is properly loaded, slide the Safety off by pushing the Safety Lever "UP" to the "Fire" position.

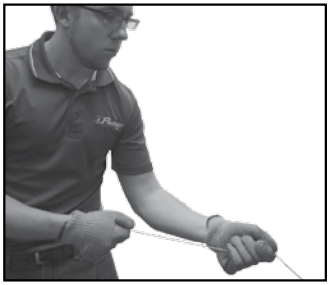
Aim the crossbow at your target, and slowly "Squeeze" the Trigger (do not jerk) until the crossbow fires.



STINGRAY

Retrieval

If you have a catch - Hand Over Hand
Gloves Recommended



If you do NOT have a catch - Reel In

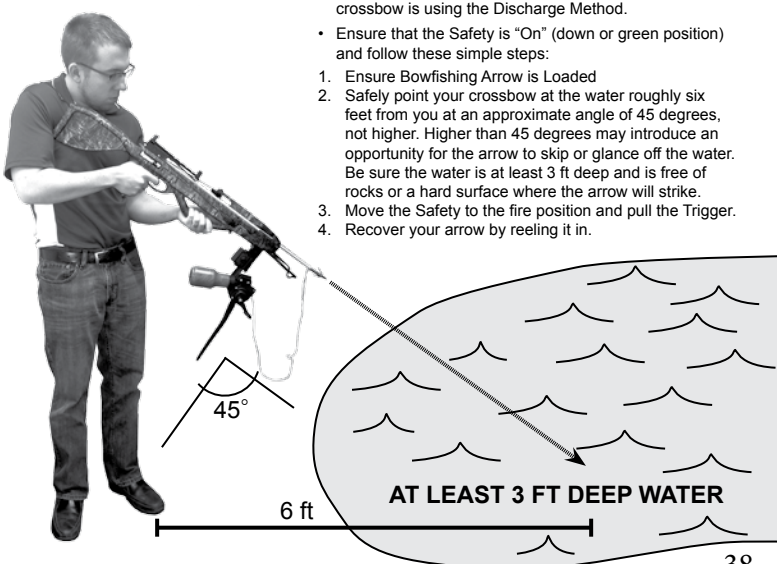
Crank handle clockwise with right hand while pulling back tension lever with left hand

Un-Cocking

Using the Discharge Method

- The ONLY safe and proper method to un-cock your crossbow is using the Discharge Method.
- Ensure that the Safety is "On" (down or green position) and follow these simple steps:

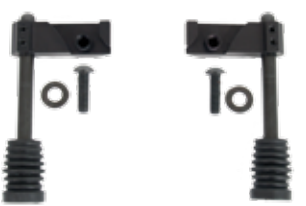
1. Ensure Bowfishing Arrow is Loaded
2. Safely point your crossbow at the water roughly six feet from you at an approximate angle of 45 degrees, not higher. Higher than 45 degrees may introduce an opportunity for the arrow to skip or glance off the water. Be sure the water is at least 3 ft deep and is free of rocks or a hard surface where the arrow will strike.
3. Move the Safety to the fire position and pull the Trigger.
4. Recover your arrow by reeling it in.



STRING SUPPRESSORS

Select models of Crossbows come from the factory with a pair of String Suppressors pre-installed and tuned. For other models, you may choose to add a pair of String Suppressors. After repeated use, it may be necessary to re-tune the String Suppressors to ensure the correct spacing between the string and the soft string bumpers. To re-tune, use a hex wrench, loosen the two rod screws on each side, and re-position the bumpers so they are barely making contact with the string when the string is at rest.

CROSSBOW STRING SUPPRESSORS
Item: 38- 233- For Cyclone and Tornado*
Item: 38-235 - For Hornet Extreme
Item: 38-2351- For ThunderHawk, BlackHawk & Challenger
Item: 38-2352 - For Enforcer
Item: 38-2353 - For Bushwacker
String suppressors dramatically reduce the sound and vibration of the crossbow string. Only designed to fit Parker Crossbow models indicated.



*Excludes 2008 Cyclone & Tornado F4

TROUBLE SHOOTING

The following troubleshooting guide should be used if you experience any problems with your Crossbow. If the symptom you are experiencing is NOT covered in these pages, or your issue is NOT resolved by following the troubleshooting guide, please do the following:

1. Visit our website for additional information, including briefings and additional troubleshooting information:

   WWW.PARKERBOWS.COM

2. Call our Customer Service Department at (540) 337-5426 and our highly skilled service technicians will gladly assist.

Your Parker crossbow features a highly advanced Trigger that has been designed and engineered for years of trouble free operation. It features an Anti Dry-fire mechanism that is designed to prevent damage to your crossbow, you and others. It is important to:

- Keep the Trigger clean and free of all debris, dirt, mud, etc.
- DO NOT use lubricants in the Trigger or on other internal components
- DO NOT attempt to open or dismantle the crossbow. Doing so WILL VOID YOUR WARRANTY
- Keep the Retention Spring on the crossbow in good working order; it is designed to apply consistent down pressure on the arrow when the crossbow is cocked and loaded.

TROUBLE SHOOTING

PROBLEM: My crossbow will not fire when I pull the Trigger. What should I do?

Carefully check these items <u>in this order:</u>

1. With your arrow properly loaded, make sure the safety is in the Fire (up or red position). If it is not, push the safety to the fire (up) position and try shooting again.

2. Make sure the Capture Nock is firmly seated against the string, making sure the retention spring (or finger) is pressing the arrow firmly down, engaging the anti dry-fire device. If the arrow is not seated against the string and you have already squeezed the trigger without the crossbow firing, you will have to “Re-set” the trigger. Continue to 3.

3. In this case the anti dry-fire device has engaged, preventing you from accidentally dry firing and damaging your crossbow and voiding your warranty. To re-set the trigger, REMOVE THE ARROW FROM THE CROSSBOW, AND MOVE THE SAFETY LEVER TO THE SAFE POSITION. Continue to 4 to safely reset the trigger.

⚠ **ATTENTION:** When the Anti Dry-fire device has engaged, It will remain locked in the “Up” position until the trigger is reset.

TROUBLE SHOOTING

WARNING: DO NOT attempt to forcibly depress the Anti Dry-fire Device if your crossbow is cocked. DO NOT jam or pry any object (arrow or screwdriver) into the Trigger to try and force the Anti Dry-fire down.

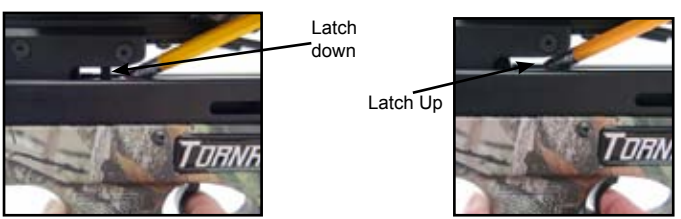
4. **To Reset Trigger**: Review the Cocking Section of this manual, beginning on page 17. Repeat the steps beginning on page 17, using a rope cocker or on page 17 using a Side-winder cocking device to properly reset the trigger and re-cock your crossbow. Note: Since the string is cocked, you will have to attach the hooks to the string on either side of the trigger. Pull the rope cocker or sidewinder back FIRMLY approximately 1/8 inch to reset the trigger. Even though you will see or feel very little movement, you should hear a "click". At this point the crossbow trigger is re-set and you may place an arrow in the crossbow and shoot it normally.

TROUBLE SHOOTING

PROBLEM: My Crossbow won't cock. The Trigger Latch is down, and I can't get the string to catch. What should I do?

1. Move the Safety Lever up to the fire position.
2. With a small object like a pencil with an eraser, depress the Anti Dry-fire Mechanism.

3. Pull the Trigger. You should notice the Trigger Latch opens up.



4. To cock the crossbow follow the instructions beginning on page 17.

TROUBLE SHOOTING

PROBLEM: The Safety seems stiff or hard to move into the fire position. What should I do?

1. First, remove the arrow from the crossbow. Make sure there is no mud, dirt or debris inhibiting the Safety from moving. If you feel a gritty or scratchy sensation when you move the Safety there is likely dirt or foreign material in the mechanism.

2. Using compressed air, spray the entire Trigger mechanism including the grooves, seams and crevasses where there are moving parts to remove the foreign material.

3. If the above does not resolve the problem, call Parker for Customer Service.

PROBLEM: The Safety is "jammed", and will not move. What should I do?

1. First, remove the arrow from the crossbow, and review *Problem* above. If still jammed, try lightly tapping on the Safety with a hard object such as the handle on a screwdriver, getting progressively harder until the Safety moves to the fire position.

2. If the Safety cannot be moved to the fire position, call Parker for Customer Service.

⚠ **WARNING:** DO NOT ATTEMPT TO DISASSEMBLE THE TRIGGER. TO DO SO WILL VOID YOUR WARRANTY.

⚠ **WARNING:** DO NOT ATTEMPT TO UNCOCK A CROSSBOW WITH A COCKING DEVICE UNDER ANY CIRCUMSTANCES.

TROUBLE SHOOTING

PROBLEM: The Retention Spring is broken or is bent. What should I do?

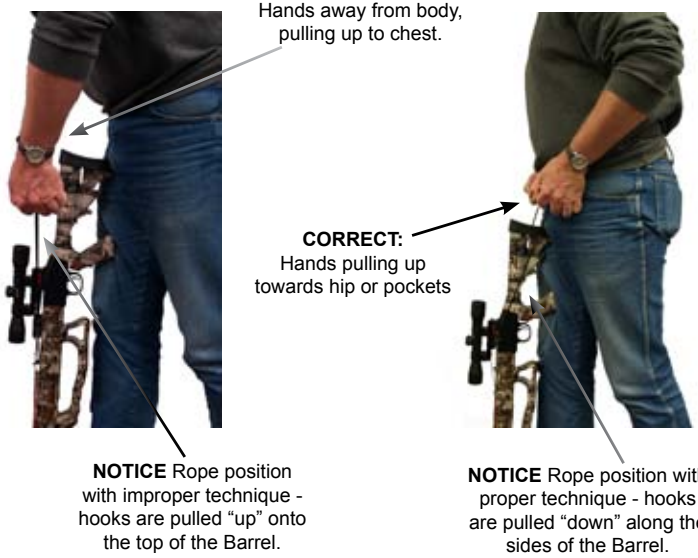
1. The arrow Retention Spring is made of a highly durable composite material. It is designed to keep consistent down pressure on the arrow, ensuring the arrow does not move just prior to the shot, as well as to reduce noise. If it were to break, contact Parker for a replacement.

⚠ **WARNING:** DO NOT SHOOT YOUR CROSSBOW WITHOUT A RETENTION SPRING. TO DO SO WILL VOID YOUR WARRANTY.

TROUBLE SHOOTING

2. The arrow Retention Spring can be damaged (broken or bent) if improper rope cocking technique is used. When improper technique is used, the rope cocker hooks can “jump” up on top of the Barrel, impacting the Retention Spring and breaking it. To avoid the hooks from jumping up, pull the handles close to your hips or pockets when cocking.

Proper cocking technique illustrated below



TROUBLE SHOOTING

PROBLEM: My crossbow shoots good groups with field points but not broadheads. What should I do?

1. Most often the broadhead weight does not match the field point weight. Ensure you're using broadheads that have the same weight as the field points. Parker recommends using 100 grain field points and 100 grain broadheads.

2. Often the problems in broadhead flight arise from using a fixed blade broadhead that is too big in diameter so it wind-planes (steers from the front), or the ferrule is much longer than the field point, changing its front of center balance point.

3. Most mechanical broadheads fly well, providing the blades do not open in flight (called Flashing). On bows under 300 FPS this generally is not a problem. High performance bows do see this often enough to warrant choosing a proper fixed blade broadhead. The RED HOT brand of High Performance Accessories has a fixed blade broadhead that is specifically designed for Crossbows shooting over 300 FPS. The Crosspro 100 broadhead has the same ferrule length as a field point, large vents in the blades to dramatically reduce wind-planing, and a 1 1/16" cutting Diameter, which is large enough to produce devastating wound channels, but not large enough to counter the fletching's steering properties on the back of the shaft.

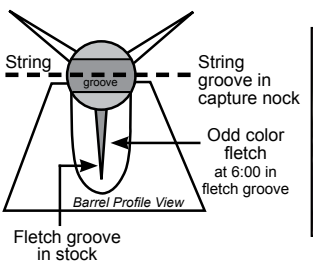
4. To ensure your broadheads are properly sighted in, you will have to shoot the broadheads and make sight adjustments.

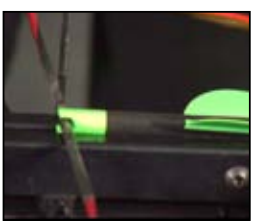
TROUBLE SHOOTING

PROBLEM: My arrows shoot erratically or group right or left of the bullseye. Why? What should I do?

1. If you use your “hands only” to cock the crossbow, you will load the string more to the left or right, depending on which arm is stronger or longer. **We do <u>NOT</u> recommend using your hands only to cock the crossbow.** The problem is resolved using a rope cocker to equalize the limb load properly.

2. Check to make sure the arrow is loaded correctly each time you shoot. Ensure the cock vane (the odd color fletching that rides inside the Barrel – see below) is loaded “down”. Index (or turn) your Capture Nock to make sure it is in-line with the string when loaded, fully engaging the string.





SHOOT PARKER OR RED HOT BRAND ARROWS ONLY

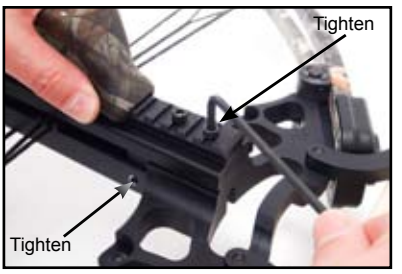
⚠ **ATTENTION:** Parker <u>REQUIRES</u> using ONLY Parker or RED HOT Brand Crossbow Arrows with Capture Nocks installed and having a finished mass weight of a minimum of 400 grains. <u>DO NOT USE SLOTTED MOON NOCKS OR FLAT NOCKS.</u>

TROUBLE SHOOTING

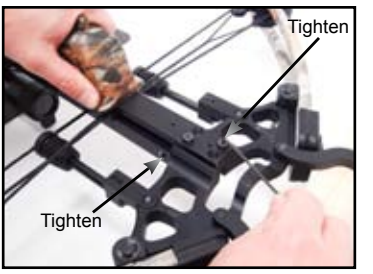
3. Make sure the fasteners that attach the Front-end to the Stock are tightened firmly, and not loose (see below).

Bushwacker, Enforcer, Hornet, ThunderHawk & Challenger models

Gale Force



Tornado F4



4. Check to make sure your broadhead weight matches your field point and tighten the broadhead firmly against the arrow insert. Also verify that your broadhead is assembled properly.

5. Finally make sure the screws that attach your scope to the scope mount are snug. Also your scope may need to be fine tune adjusted to get “on the bullseye”. See next page for more info.

If these solutions do not resolve your problem, call Parker Customer Service at 540-337-5426

TROUBLE SHOOTING

PROBLEM: My scope will not adjust high enough or far enough left or right? What should I do?

1. Your Parker Crossbow came factory installed with a Hawke or RED HOT Scope, which is manufactured to have a turret adjustment for both windage and elevation of one click equals 1/2" of adjustment at 100 yards. At 20 yards, (being five times closer) the same 1/2" of movement is now 5 clicks. To move the crosshairs one inch is 10 clicks. REMEMBER 10 clicks per 1 inch at 20 yards (10 – 1 – 20).

2. You may not have adjusted the scope turrets far enough. Follow the turret ratio's above and try again.

Example: If your shot is 4 inches Above and 2 inches to the Right of the bullseye, you'll need to adjust:

1. Elevation - Down 40 clicks
2. Windage - Left 20 clicks

3. If the above recommendations do not resolve your issue, it is possible the scope rings are not properly seated in the sight bridge. Check to make sure that both scope ring bases are firmly seated in the sight bridge grooves. Also ensure that the ring bodies themselves are firmly and evenly tightened around the scope tube.

If these solutions do not resolve your problem, call Parker Customer Service at 540-337-5426

TROUBLE SHOOTING

PROBLEM: The cables are becoming "fuzzy". What should I do?

1. If the cable slide was not installed, was installed incorrectly, or if it has come out of the cable slot, the cables will wear and become fuzzy. Check to see if the cable slide has been installed. If it has not, call Parker for a replacement and install it per the assembly instructions starting on page 3, 10 or 34 before shooting the crossbow again.

2. A quality wax will enhance your bows performance and extend your string and cable life, and it will remedy the "fuzzy" appearance. RED HOT brand string and cable wax is formulated for high velocity crossbows and is recommended by Parker.

RED HOT CROSSBOW ACCESSORIES

Wax & Lube Kit

PROBLEM: The center serving is becoming "fuzzy". What should I do?

1. Sometimes the center serving can become fuzzy or separate after an extended amount of use. This would be considered normal wear. You can remedy this situation by applying a small amount of barrel lubricant to the center serving, being careful NOT to use an excessive amount.

TROUBLE SHOOTING

ATTENTION: Unless the strands of the string and cables are broken, they remain in good working order and present no danger. If they are broken, have the string and cables replaced.

ATTENTION: WAX: Wax should be applied only to the exposed strands of the string, cables, and the servings (except center serving). Apply wax sparingly and fully work into the strands and servings with your fingers.

Do NOT apply wax to the surface of the Barrel of a Parker Crossbow. Wax is a sticky substance that can attract dirt and debris and compromise the function of the Trigger.

In addition, using wax on the center serving could pull wax into the Trigger mechanism along with any collected dirt or debris and over time compromise the performance of the Trigger.

LUBE: Although there is little string pressure on the Barrel of Parker Crossbows, using Barrel lubricant is recommended to help extend the life of the center serving. The Barrel lubricant will also coat the Trigger Latch, enhancing the smooth release of the string, therefore increasing the performance of your crossbow.

ATTENTION: DO NOT LUBRICATE THE INTERNAL COMPONENTS OF YOUR TRIGGER.

The Trigger has been engineered to be maintenance free. Applying lubricants or oils to the Trigger will attract dirt and debris and impair its performance and safety.

SHOOTING SAFETY

1. Your crossbow is a lethal weapon that is designed for hunting and target shooting only. Do **NOT** use it for any other purpose. It should never be handled as a toy.
2. Your crossbow is capable of casting an arrow in excess of 500 yards and harvesting the world's largest big game. It is important to always be aware of your target background as well as your backstop material when shooting, so that any arrow that may miss your target will not endanger people, pets, or property down range. Use a quality target designed for use with crossbow arrows.
3. Always treat your crossbow as you would a **firearm**, particularly when it is cocked, or cocked and loaded with an arrow.
4. Never use an arrow that is damaged.
5. **Carefully inspect each arrow for damage before and after every shot. THIS IS VERY IMPORTANT FOR YOUR SAFETY.** Inspect for damage including (a) hairline fractures, cracks or splitting of the carbon shaft, (b) cracked, split or loose Capture nock, (c) ripped or torn fletching, (d) bent or loose insert, (e) missing, loose, bent or broken field point or broadhead. If the arrow is damaged, do NOT use it.
6. It is NOT safe or recommended to cock a crossbow in a tree stand. Cock your crossbow while on the ground before climbing into your tree stand.
7. **Never climb into a tree stand while carrying your crossbow.** Place your cocked and unloaded crossbow on the ground in a safe position, then climb into your stand. After you secure yourself in the tree stand with a safety harness, use a hoist rope attached to your crossbow to pull your crossbow up into the stand. Once you and your crossbow are safely and securely in the tree stand, load the arrow – you are now ready to hunt.

SHOOTING SAFETY

8. Following your hunt, remove your arrow and secure it in your quiver. If you are in a tree stand, attached the unloaded crossbow to the hoist rope and carefully lower it to the ground.
9. As with any bow or crossbow, there is a forward movement of the limbs when fired. **Never attempt to shoot your crossbow when the limbs are in contact with or near an object**, such as a window pane, tree branches, etc. If your crossbow limbs were to hit an object during the shot, you could damage the crossbow, knock yourself off your tree stand or otherwise cause serious injury.
10. Never attempt to shoot your crossbow while in an awkward or unnatural position.
11. **Always be aware of where your fingers and thumb are on the Forearm.** Shooting from awkward and unnatural positions may distract you from proper Forearm hand placement.
12. While aiming your crossbow, be sure to hold the crossbow level. Do not slope or dip the limbs to one side. Keeping the bow level will greatly improve your shooting and consistency.
13. Do NOT put your finger on the trigger until you have made the decision to fire. To do so could result in an accidental discharge that could cause serious injury or death, or damage to property.
14. We strongly recommend wearing shooting glasses while practicing or hunting with your crossbow.
15. Never walk around carrying your crossbow with an arrow loaded in it.
16. Never hand your crossbow to another person with an arrow loaded in it.
17. When carrying a cocked and unloaded crossbow, make sure the safety is in the Safe position (down and green).

18. Never carry the crossbow with your hands, fingers or any other part of your body in the string path.
19. Never load an arrow in your crossbow until you are at a place where you plan to stay until shooting your crossbow.
20. Never leave your crossbow cocked or loaded when not in use or unsupervised.
21. Keep your crossbow, arrows, broadheads and other hunting gear out of the reach of children
22. Do **NOT** modify your crossbow or use non-factory replacement parts. To do so will void your warranty and could result in damage to the crossbow, property or injury or death.
23. Do **NOT** consume drugs or alcohol before or while using your crossbow. Your vision, coordination and judgment could be impaired, making your operation of the crossbow unsafe.

⚠ **WARNING:** Do NOT allow any person who has not read this entire crossbow owner's manual to shoot your crossbow. It is your responsibility to make sure all persons have been properly trained, informed, and warned of all the dangers and risks associated with operating this crossbow.

ACCESSORIES

Parker Crossbows recommends the following RED HOT high performance crossbow accessories to achieve optimum performance and accuracy from your crossbow.

#38-2149 RED HOT Pin Point, Dial-a-Distance, Fixed Power (3X) Illuminated Multi-Reticle Scope

3X Magnification with a 1 inch Tube. Engineered for high performance crossbows shooting over 300 FPS. Dial-a-distance from 10 to 70+ yards. Water proof, shock proof, and fog proof with a Lifetime Warranty.

#38-2142 RED HOT 3 x 32 Illuminated Crossbow Scope

Short, compact, and light, for crossbows shooting over 300 fps. Includes fast focus ocular and clutter free reticle. Lifetime warranty, water proof, fog proof and shock proof.

#38-2141 RED HOT 3 x 32 Crossbow Scope

Short, compact and light, for crossbows shooting over 300 fps. Includes fast focus Ocular. Dual color illumination, 5 brightness settings of red and green. Lifetime warranty, waterproof, fog proof and shock proof.

#38-2144 RED HOT Match Grade Rings (Med)

ACCESSORIES

RED HOT CROSSBOW ACCESSORIES

#38-225 RED HOT High Velocity Carbon Arrow – 6 PK: Features the Patented Capture Nock for added safety and accuracy. 100% wrapped carbon construction for extreme strength and durability. Stiffer spine for high velocity crossbows. Fusion vanes for less drag. Optimum F.O.C. for Superior Downrange Accuracy.
20” length, 420 gr (using a 100 gr point).

#38-220 – Parker Hunter Crossbow Arrow – 6 PK: Features the Patented Capture Nock for added safety and accuracy. 100% wrapped carbon construction for extreme strength and durability. Optimum F.O.C. for Superior Downrange Accuracy. 3” Vanes.
20” length, 400 gr (using a 100 gr point).

FEATURING

Capture Nock

PATENTED

Powered By Lumenok

RED HOT Lighted Capture Nocks
Model# 38-3368 - 3 Pack (Red)
Model# 38-3369 - 3 Pack (Green)
Fits the Following Crossbow Arrow Brands: Parker Hunter Arrows (2013) and others with inside diameters of 0.300”.

- ***Ensure Proper Arrow & String Alignment***
- ***Increase Accuracy***
- ***Avoid Accidental Dryfires***

#38-2150 RED HOT Wax and Barrel Lubricant Kit: 100% scent free, mess free and will not freeze. Barrel lubricant has an applicator tip. 1 of each in kit.

ACCESSORIES

RED HOT CROSSBOW ACCESSORIES

#38-201 Rope Cocking Device:

- Unique roller glide hooks for easy, smooth cocking effort.
- Ensures proper string alignment and even limb load.
- Improves crossbow accuracy.
- Easily adjust rope length.
- Will not scratch the barrel finish.
- Extra long (42") rope to accommodate all Parker crossbows and most leading brands.
- T-handles for a solid grip and pull.

EZ ROLLER ROPE COCKER

PATENTED

CROSSPRO 100 BROADHEADS

#38-2153 RED HOT CrossPro 100 Broadhead – 3 pk: 100% stainless steel ferrule and blades, this broadhead is designed using mono-flow technology. Flies the same as 100 gr. field point. 1 1/16" cutting diameter.

#38-343 RED HOT Crossbow Case: This deluxe camo padded nylon crossbow case includes an external quiver pouch, extra high body to fit most crossbows, and adjustable shoulder strap for easy transportation.

#38-207 RED HOT Crossbow Sling w/ Swivels: Thermoformed design has generous padded foam for comfort while carrying your crossbow. Includes sling swivels.

IMPORTANT INFORMATION

LIMITED 5 YEAR WARRANTY

To activate Parker's Limited 5 Year Warranty, the warranty card must be completed in full and mailed by the purchaser within 15 days of purchase date; or you may register on-line at http://www.parkerbows.com/registration.html.

Parker Compound Bows and Crossbows are warrantied for Five (5) Years to the Original Purchaser to be free from defects in materials and workmanship. This warranty excludes normal wear on strings, buss cables, servings, bow camo finish, rust and accessories.

Parker reserves the right to charge for repairs if you have not activated your warranty. Parker reserves the right to make substitutions when completing repair work for any reason. Should you return your bow to a Parker Dealer for repairs, even covered warranty repairs, the dealer may charge you for any work performed.

Accessories included on the Outfitter Compound Bow packages are warrantied for 30 days and may be returned to Parker for replacement. Other accessories, such as rests, quivers, sights, etc. added by anyone other than the Parker factory are not warrantied by Parker.

YOUR WARRANTY WILL BE VOIDED IF YOU:

1. Mishandle, abuse, neglect or dry-fire the bow
2. Do NOT use ONLY Parker or Red Hot brand crossbow arrows with Capture Nocks
3. Use crossbow arrows with flat nocks, moon nocks, omni nocks, etc.
4. Load crossbow arrows incorrectly (cock vane is not down)
5. Shoot arrows with improperly indexed nocks (nock groove does not fully engage string)
6. Shoot improperly spined or under-weight arrows (less than 400 grains with point)
7. Shoot arrows that have been damaged in any way
8. Alter or modify your bow from its original condition (interchanging parts and cosmetic refinishing)
9. Use a brand of strings or buss cables other than Parker or Red Hot brand, which are specifically designed in length, strands, serving location, serving size, etc.
10. Loan or rent the bow to others without providing proper instructions to the user
11. Do NOT follow ALL of the safety and operating instructions in the Owner's Manual.

IMPORTANT NOTES:

A. Failure to follow #2-7 above can cause the string to "Over-Shoot" or "Under-Shoot" the arrow, which can result in damage to the crossbow, the arrow or even personal injury. When this happens, the arrow does not absorb the full energy from the shot; instead the energy is absorbed by the components (limbs, cams, strings, etc.), causing damage.

B. Altering or modifying your bow could cause damage to the bow or personal injury. Altered and/or modified parts determined to be unsafe will NOT be returned with the repaired bow.

C. Using strings or cables that are the improper length and the incorrect number of twists can significantly affect the draw weight and cause damage to the bow or personal injury.

Should your Parker Bow or Crossbow need service or repairs, it must be returned to Parker. The determination regarding defects in materials and/or workmanship and whether the service or repairs are covered under warranty shall be in Parker's sole discretion. In any case, the bow owner is responsible for the cost of shipping to Parker. Parker will pay return shipping costs using UPS ground service. On all returns, call 540.337.5426 for a Return Authorization Number before returning any product. Items will be refused without an RA# clearly marked on the box. See next page for details on returns.

IMPORTANT INFORMATION

-Warranty Return Process-

PARKER'S WARRANTY EXTENDS TO THE ORIGINAL PURCHASER ONLY

DO NOT RETURN ANYTHING TO PARKER BEFORE CALLING AND OBTAINING A RETURN AUTHORIZATION NUMBER.

To ensure a prompt return of your crossbow, complete the following:

1. Contact Parker Customer Service at 540-337-5426 to review your issues with a trained Parker Technician or to obtain a Return Authorization Number (RA#).

2. In many situations, we are able to resolve the issue by phone. However, some issues may not be resolved over the phone and will require the bow be return to Parker for service. At this time the Parker Technician will issue a Return Authorization Number (RA#). Remove all accessories before shipping unless otherwise instructed by the Parker Technician.

3. **Return the crossbow to Parker at the following Address:**

Parker Crossbows
3022 Lee Jackson Highway
Staunton, VA 24401
RA#_____

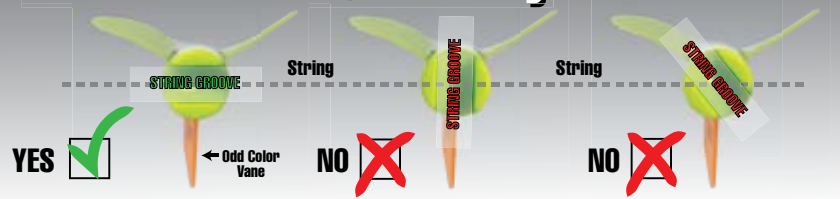
4. Please package your bow carefully, wrapping the bow in paper or foam. Ensure the bow cannot move around in the box and that there are no loose parts that could shift during delivery and damage the bow. Include a description of your warranty request, and make sure you include your name, address, phone number, email address and the RA #.

DO NOT USE A HARD BOW CASE FOR SHIPPING

⚠ **ATTENTION:** This warranty excludes normal wear on strings, buss cables, servings, bow camo finish, rust and accessories.

1. USE ONLY CAPTURE NOCKS

2. Index Nock Correctly



3. Load Cock Vane (Odd Color) Down

NOT FOLLOWING THESE INSTRUCTIONS CAN VOID YOUR WARRANTY AND LEAD TO THIS